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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/038,062	01/04/2002	Stephen A. Milks	8416-000008	5754		
7	590 01/13/2005		EXAM	EXAMINER		
W. R. Duke Taylor			FREAY, CHAF	FREAY, CHARLES GRANT		
Harness, Dicke	y & Pierce, P.L.C			. <u> </u>		
P.O. Box 828			ART UNIT	PAPER NUMBER		
Bloomfield Hills, MI 48303			3746			

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati		Applicant(s)		M		
Office Action Summary		10/038,0		MILKS, STEPHEN	N A.			
	Office Action Summary	Examine		Art Unit				
	The MAN INC DATE of this communication	Charles C		3746	Idroop			
Period fo	The MAILING DATE of this communic or Reply	ation appears on th	e cover sneet with	tne correspondence ad	aress			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FC MAILING DATE OF THIS COMMUNIC Insions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commuse period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply wreply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no evinication. days, a reply within the stautory period will apply and will, by statute, cause the app	vent, however, may a reply tutory minimum of thirty (3 vill expire SIX (6) MONTH: olication to become ABAN	y be timely filed 10) days will be considered timel S from the mailing date of this or DONED (35 U.S.C. § 133).	y. ommunication.			
Status			f.					
1)	Responsive to communication(s) filed	Lon 19 October 200	04					
2a)□		o)⊠ This action is r						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□	Claim(s) <u>1,2 and 5-19</u> is/are pending 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1,2,5-8,10-17 and 19</u> is/are re Claim(s) <u>9 and 18</u> is/are objected to. Claim(s) are subject to restriction	e withdrawn from co						
Applicat	ion Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on <u>04 January 20</u> Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	<u>02</u> is/are: a)☐ acc ion to the drawing(s) ^l he correction is requir	be held in abeyance red if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CF	FR 1.121(d)			
Priority ι	under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies of application from the Internation See the attached detailed Office action	ocuments have bee ocuments have bee f the priority docum al Bureau (PCT Ru	en received. en received in App ents have been re le 17.2(a)).	lication No ceived in this National	Stage			
Amarka	A/a)		-					
Attachmen 1) ⊠ Notic	t(s) e of References Cited (PTO-892)		4) Interview Sum	ımary (PTO-413)				
2) 🔲 Notic 3) 🔲 Infori	te of References Cited (F10-092) te of Draftsperson's Patent Drawing Review (PTomation Disclosure Statement(s) (PTO-1449 or Ptr No(s)/Mail Date		Paper No(s)/M	finally (F10-413) fail Date: mal Patent Application (PTC)	D-152)			

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the details of the motor casing sealing the motor and bearings must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Objections

Applicant is advised that should claim 5 be found allowable, claim 6 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5-8, 10, 13-16 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raab et al in view of Fujisaki et al (USPN 4,684,839).

Raab teaches a housing assembly which includes a front face portion, a main base portion (11-13) and a back face portion. The base portion includes a thin low profile electric motor (15) and a fan blade. A base portion includes a bottom face (11) having elongated support members (19,20) that are capable of being pivotally disposed in an extended position or a contracted position or points in between as a result of their being mounted on a pivot pin. Raab does not discuss that the motor is about 1 inch thick, that the housing is made of polymeric material or that the support members are

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manually actuated. Fujisaki et al discloses a low profile DC motor with a thickness of about 5.2 mm (see col. 9 lines 24-27), with a housing made of a synthetic resin (which are commonly polymers) and has a sealed motor housing. In Fujisaki et al the only opening is for the shaft through bearing element (53). The tight and extended space between the shaft and bearing forms a labyrinth seal. At the time of the invention it would have been obvious to one of ordinary skill in the art to substitute a sealed low profile electric motor for the generically disclosed electric motor of Raab in order to provide an efficient low profile drive means for the Raab fan devise. Further, with regards to the thickness of the fan being three inches, the thickness of the fan would be considered and obvious design choice.

With regards to claims 10, 13-16 and 19 the examiner notes that it would have been obvious to remove the spring drive for the support members and to have the rotation of the members performed manually. Such an arrangement would reduce parts and simplify the devise.

Claims 2 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raab et al in view of Fujisaki et al as applied to claims 1 and 10 above, and further in view of Hung (USPN 5,839,205).

As set forth above Raab et al in view of Fujisaki et al discloses the invention substantially as claimed but does not disclose that the dc motor is run on 12 volts. Hung discloses a fan which is driven by 12 volts. At the time of the invention it would have

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been obvious to one of ordinary skill in the art to size the motor of Raab or Fujisaki et al so that it could operate on readily available 12v current sources as taught by Hung.

Claims 10 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raab et al.

Raab teaches a housing assembly which includes a front face portion, a main base portion (11-13) and a back face portion. The base portion includes a thin low profile electric motor (15) and a fan blade. A base portion includes a bottom face (11) having elongated support members (19,20) that are capable of being pivotally disposed in an extended position or a contracted position or points in between as a result of their being mounted on a pivot pin. Raab does not discuss that the support members are manually actuated. At the time of the invention it would have been obvious to remove the spring drive for the support members and to have the rotation of the members performed manually. Such an arrangement would reduce parts and simplify the devise.

Further, with regards to the thickness of the fan being three inches, the thickness of the fan would be considered and obvious design choice.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Raab et al claim 10 above, and further in view of Hung (USPN 5,839,205).

As set forth above Raab et al discloses the invention substantially as claimed but does not disclose that the dc motor is run on 12 volts. Hung discloses a fan which is driven by 12 volts. At the time of the invention it would have been obvious to one of

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ordinary skill in the art to size the motor of Raab et al so that it could operate on readily available 12v current sources as taught by Hung.

Response to Arguments

Applicant's arguments with respect to claims 1, 2 and 5-19 are have been considered but are moot in view of the new ground(s) of rejection.

The examiner notes two of the applicant's arguments. First that Raab discloses a can type motor and that it nowhere suggest a thin low profile motor. The examiner disagrees. Raab only discusses an electric motor and the drawing clearly shows a low profile motor. Second the applicant argues that Raab nowhere teaches of manual positioning of the support members in a range of positions. While Raab does not teach this feature it would have been obvious to one of ordinary skill in the art to make the automated movement of the Raab support members manual for the reasons set forth in the above rejections. The examiner notes that in Raab the members move through the same range of positions as the applicant's device.

Allowable Subject Matter

Claims 9 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Each of Miyake, Lohr, Kakizaki, Haydon et al, Monma and Suzuki disclose low profile sealed motors.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles G Freay whose telephone number is 571-272-4827. The examiner can normally be reached on Monday through Friday 8:30 A.M. to 5:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ælfarlés G Freay (Primary Examiner Art Unit 3746

CGF December 23, 2004